**Solutions to Equations and Inequalities**

**Solution -** the value or value**s** that make an equation or inequality

true

Is t = 4 a solution to 5t +10 > 7t - 4 ?

**To determine if a given value is a solution:**

1. Substitute the given value into the equation or inequality

5t +10 > 7t - 4

5(4) + 10 > 7(4) - 4

2. Simplify the expression on either side of the equation or

inequality

20 + 10 > 28 – 4 NOTE: the >,<, or = sign ***separates*** the 2 sides (2 expressions)

30 > 24

3. Determine if the simplified expressions satisfy the equal sign or

inequality symbol

30 is greater than 24, therefore 4 is a solution